

There is provided a data processor wherein

5        a plain text by using a decryption key, which device  
is constructed of a plurality of key conversion

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10      key for encryption or decryption, or key conversion
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15 sequentially connected, which are an involution type,  
and which conducts encryption and/or decryption by

20 in the order or the reverse order. With the device,  
the scale of a secret key encryption device can be

small, security can be increased and further, key management can be conducted with ease.